

And we wish that the experimenters had looked into this phase of the matter far enough to perceive that clarity is not only not to be achieved by a shifting of terms, but is actually hindered thereby.

Insistence by the makers of the American Code on unessential details and disregard by them of majority usage, when a little yielding to it would not have harmed their major position, brought about thirty years of needless nomenclatural controversy. The most obvious result of a similar insistence on "subspecies" and a like disregard for the use of it by most botanists in the past has been the unedifying spectacle of one group of taxonomists busily transferring varieties to subspecies and another group equally busy making transfers in the opposite direction—a tempest in a teapot also quite needless. All difficulty not wholly illusory would have been avoided by the simple, and one would suppose the obvious, expedient of following the rules and using variety as the term primarily to be employed for subdivisions of species. If the workers in experimental taxonomy have convinced themselves that only one infraspecific category is worth while¹, so be it; if they can prove it, well and good; variety would still better serve their turn and would meet with no opposition.

GRAY HERBARIUM.

THIRD LIST OF FUNGI OF NANTUCKET²

E. F. GUBA AND E. V. SEELER, JR.

Sufficient further collections have been studied to make possible a third list of fungi of Nantucket. Several specimens collected in previous years still remain to be determined and much further work is required before the record of the fungous flora of the island can be considered fairly complete.

Certain numbers of fleshy fungi appearing in this list and indicated by an asterisk are taken from a list of names submitted

¹ Americans, in line with previous practice in this continent, mostly use only one. So far as I have observed, Europeans, though they have lowered more or less the morphological content of the subspecies and, in consequence, use that term more frequently than in the past, still freely employ two or three categories.

² Contribution of the Nantucket Maria Mitchell Association, Div. of Natural Science, Nantucket, Mass. For the first and second lists see *RHODORA* 39: 367–376, 1937, and 41: 508–520, 1939. The cost of publication is met by the Maria Mitchell Association.

to the Nantucket Maria Mitchell Association in 1939 by Dr. Jacob E. Lange, Director, Fyns. Husmandsskole, Odense, Denmark. Dr. Lange's records are based on material which he collected on Nantucket in August 1927 and September 1939. Other collections and identifications mentioned in this and previous lists were made by Linder (Harvard University), Diehl and Cash (United States Department of Agriculture), Rice (Wheaton College), Gilgut (Massachusetts State College) and others. The writers are most grateful to them for their collaboration.

201. *ALTERNARIA SONCHI* J. J. Davis. On leaves of *Sonchus arvensis* L. Generally present. August, 1937. Coll. and det. by *E. F. Guba*.

202. *AMANITA PHALLOIDES* (Bull. ex Fr.) Fr. On ground near pines south of Fair Grounds, and in Saul's Hills. July 24, 1938. Coll. and det. by *E. V. Seeler, Jr.* Quite common, and most poisonous.

203. **AMANITOPSIS STRANGULATA* (Fr.) Karst.

204. **AMANITOPSIS VAGINATA* (Bull.) Karst.

205. *AMANITOPSIS VAGINATA* (Bull.) Karst. var. *FULVA* (Schaeff.) Sacc. Hidden Forest, July 27, 1940. Coll. and det. by *D. H. Linder*.

206. *ARCYRIA CINEREA* (Bull.) Pers. On decaying wood, Hidden Forest, August 5, 1938. Coll. and det. by *E. V. Seeler, Jr.*

207. *ARCYRIA DENUDATA* (L.) Wettstein. On decaying wood, Hidden Forest, August 5, 1939. Coll. and det. by *E. V. Seeler, Jr.*

208. *ARCYRIA NUTANS* (Bull.) Grev. Hidden Forest, July 27, 1940. Coll. by *D. H. Linder*; det. by *D. P. Rogers*.

209. *ASCOCHYTA GRAMINICOLA* Sacc. On leaves of *Andropogon scoparius* Michx. Manifest as small, dense punctiform pycnidia on the lower surface of the leaf-blades. Same as No. 106 except for host. August 20, 1937. Coll. and det. by *E. F. Guba*.

210. *AURISCALPIUM VULGARE* S. F. Gray. *Hydnum auriscalpium* L. ex. Fr. On fallen cones of *Pinus rigida* Mill. State Pines south of Fair Grounds. Sept. 5, 1939. Coll. and det. by *J. E. Lange*.

211. *BELONIUM EUSTEGIAEFORME* (B. & C.) Sacc. On *Spartina pectinata* Link. Long Pond near Madaket Rd. May 30, 1936. Coll. by *E. F. Guba*; det. by *E. K. Cash*.

212. *BOLETUS VERSIPELLIS* Fr. Growing in mat of *Arctostaphylos*, Saul's Hills, about 1/2 mile west of Altar Rock. October 11, 1940. Coll. by *E. V. Seeler, Jr.*; det. by *Walter H. Snell*.

213. *CALODON alboniger* (Peck) Seeler, n. comb. *Hydnum albonigrum* Peck. Rept. N. Y. State Mus. Nat. Hist. **50**: 110, 1897. *Phellodon alboniger* Banker. Mem. Torr. Bot. Club **12**: 167, 1906. In mat of needles of *Pinus rigida* Mill. State

Pines south of Fair Grounds, Aug. 7, 1938. Coll. and det. by *E. V. Seeler, Jr.*

214. CALODON VELUTINUM (Fr.) Quélet. *Hydnum velutinum* Fr. In mat of needles of *Pinus rigida* Mill. State Pines south of Fair Grounds, Oct. 23, 1938. Coll. and det. by *E. V. Seeler, Jr.*

215. CANTHARELLUS AURANTIACUS (Wulf. ex Fr.) Fr. In mat of needles of *Pinus strobus* L. State Pines south of Fair Grounds, Sept. 2, 1940. Coll. and det. by *E. V. Seeler, Jr.*

216. CANTHARELLUS CIBARIUS Fr. On ground, Hidden Forest, Aug. 5, 1938. Coll. by *K. S. Seeler*; det. by *E. V. Seeler, Jr.*

217. CANTHARELLUS CINNABARINUS Schw. On ground, Hidden Forest, July 31, 1938. Coll. by *E. V. Seeler, Jr.*; det. by *D. H. Linder.*

218. CERATIOMYXA FRUTICULOSA (Muell.) Macbride. Hidden Forest, July 27, 1940. Coll. and det. by *D. H. Linder.*

219. CHRYSOMYXA CASSANDRAE Tranzschel. *C. cassandrae* (P. & C.) Tranz. in Arthur. On *Chamaedaphne calyculata* (L.) Moench. Siasconset road swamp, Aug. 28, 1940. Coll. and det. by *M. A. Rice.*

220. CLAVARIA CRISTATA (Holmsk.) Pers. In mat of pine needles. State Pines south of Fair Grounds, July 25, 1940. Coll. and det. by *D. H. Linder.*

221. *COLLYBIA DRYOPHILA (Bull.) Fr.

222. COLLYBIA LACERATA (Lasch ex Fr.) Fr. On dead roots of *Pinus* sp. near soil surface. State Pines south of Fair Grounds, Aug. 11, 1940. Coll. by *K. S. Seeler*; det. by *R. Singer.*

223. *CORDYCEPS MILITARIS Link.

224. CORTINARIUS TORVUS Fr. Hidden Forest, Aug. 5, 1938. Coll. and det. by *E. F. Seeler, Jr.*

225. CRYPTOPORUS VOLVATUS (Peck) Hubbard. *Polyporus volvatus* Peck. On trunk of dead tree of *Pinus rigida* Mill. State Pines south of Fair Grounds, July 25, 1940. Coll. by *E. V. Seeler, Jr.*; det. by *D. H. Linder.*

226. CYPHELLA VILLOSA (Pers. ex Fr.) Karsten. On dead parts of beach grass, *Ammophila breviligulata* Fern. North Shore sand dunes just west of Nantucket Golf Course. Sept. 5, 1939. Coll. and det. by *E. V. Seeler, Jr.*

227. DAEDALIA UNICOLOR Fr. On dead *Acer rubrum* L. Hidden Forest, May 29, 1939. Coll. by *E. V. Seeler, Jr.*; det. by *D. H. Linder.*

228. DIATRYPELLA EUTYPOIDES Niessl. On dead branches of *Ulmus americana* L. Brant Point, Apr. 23, 1939. Coll. by *E. V. Seeler, Jr.*; det. by *L. E. Wehmyer.*

229. DINEMASPORIUM GRAMINEUM Lév. On leaves of *Andropogon scoparius* Michx. Aug. 20, 1937. Coll. and det. by *E. F. Guba.*

230. *ECCILIA RHODOCYLIX* (Lasch ex Fr.) Fr. On ground under *Quercus velutina* Lam. State Pines south of Fair Grounds, Sept. 5, 1939. Coll. by *E. V. Seeler, Jr.*; det. by J. E. Lange.

231. *ENTOLOMA STRICTIUS* Peck. On mat of pine needles, State Pines south of Fair Grounds, Sept. 2, 1939. Coll. by *E. V. Seeler, Jr.*; det. by J. E. Lange.

232. *ENTOLOMA LINEATUM* (Cke.) J. J. Davis. On leaves of *Zizania aquatica* L. Coll. by *M. A. Rice*; det. by W. W. Diehl.

233. *EUROTIVM HERBARIORUM* (Wigg.) Link. On pressed leaves and stems of *Rubus* with *Gymnoconia Peckiana* (Howe ex. Peck) Trotter. June 27, 1940. Coll. by *M. A. Rice*; det. by D. H. Linder.

234. *EXIDIA GLANDULOSA* (Bull.) Fr. On fallen branch, Hidden Forest. July 27, 1940. Coll. and det. by *D. H. Linder*.

235. *FLAMMULA PENETRANS* Fr. On stumps of *Pinus* sp., common in the fall. State Pines south of Fair Grounds, Sept. 5, 1939, and often since. Coll. by *E. V. Seeler, Jr.*; det. by J. E. Lange.

236. *FOMES ANNOSUS* (Fr.) Cooke. On stump of *Pinus rigida* Mill. State Pines south of Fair Grounds, Aug. 11, 1938. Coll. by *E. V. Seeler, Jr.*; det. by D. P. Rogers.

237. **GABERA HYPNORUM* Fr.

238. *GLOEOSPORIVM POLYGONI* Dearn. & House. On living leaves of *Polygonum persicaria* L. with *Septoria polygonorum* Desm. In cultivated field along Hummock Rd. Aug. 17, 1936. Coll. and det. by *E. F. Guba*.

239. *HELOTIVM SCUTULA* (Pers. ex Fr.) Karsten. On fallen twig, swamp near Ram pasture. Coll. by *M. A. Rice*; det. by W. L. White.

240. *HYMENOCHAETA CORRUGATA* (Fr.) Lév. On dead branch of *Acer rubrum* L. Hidden Forest (1) May 30, 1936. Coll. by *E. F. Guba*; det. by W. W. Diehl. (2) July 27, 1940. Coll. by *D. H. Linder*; det. by W. L. White and D. P. Rogers.

241. *HYMENOCHAETA TABACINA* Sowerby ex Lév. On fallen branch, Hidden Forest, Oct. 11, 1940. Coll. by *E. V. Seeler, Jr.*; det. by D. P. Rogers.

242. **HYPHOLOMA CANDOLLEANUM* Fr.

243. *HYSTERIVM PULICARE* Pers. On bark of *Cornus florida* L., Hidden Forest, May 30, 1936. Coll. by *E. F. Guba*; det. by E. K. Cash.

244. *HYSTEROGRAPHIVM PRAELONGUM* (Schw.) E. & E. On dead branch of *Ulmus americana* L. on living tree. Brant Point, Apr. 23, 1939. Coll. and det. by *E. V. Seeler, Jr.*

245. *HYSTEROGRAPHIVM VULVATUM* (Schw.) Sacc. On twigs of *Sassafras variifolium* (Salisb.) Kuntze, Hidden Forest, May 31, 1936. Coll. by *E. F. Guba*; det. by E. K. Cash.

246. *KUNKELIA NITENS* (Schw.) Arth. III. On *Rubus* sp. Old Dump, Nantucket, July 3, 1940. Coll. and det. by M. A. Rice. Short cycle by germination. See No. 39 for long cycle.

247. *LACCARIA LACCATA* (Scop. ex Fr.) Berk. & Br. Growing in mat of pine needles, State Pines south of Fair Grounds, Sept. 16, 1940. Coll. by K. S. Seeler; det. by E. V. Seeler, Jr.

248. *LACTARIUS THEIOGALUS* (Bull. ex Fr.) Fr. In mat of pine needles; common. State Pines south of Fair Grounds, Sept. 5, 1939. Coll. by E. V. Seeler, Jr.; det. by J. E. Lange.

249. **LEPIOTA UMBONATA* (Schum.) Lange.

250. **LEPIOTA LUTEA* (Bolt.) Quél.

251. *LOPHODERMIVM JUNIPERINUM* (Fr.) de Not. (Immature). On leaves of *Juniperus virginiana* L. Siasconset Rd., May 30, 1936. Coll. by E. F. Guba; det. by E. K. Cash.

252. **MARASMIUS ANDROSACEUS* (L.) Fr.

253. *MELANCONIVM TYPHAE* Pk. On dead stems of *Typha latifolia* L. Border of Long Pond near Madaket Rd. and along Miacomet Pond, May 30, 1936. Coll. by E. F. Guba; det. by J. A. Stevenson.

254. **MUTINUS BOVINUS* Morg.

255. **MYCENA ALCALINA* Fr.

256. *MYCENA SANGUINOLENTA* (Ars. ex Fr.) Fr. In mat of pine needles; common. A small delicate mushroom with red juice in the stem. State Pines south of Fair Grounds. Coll. by E. V. Seeler, Jr., det. by J. E. Lange.

257. *NUMMULARIA MICROPLACA* (B. & C.) Cke. On dead branches of *Sassafras variifolium* (Salisb.) Kuntze, Hidden Forest, May 1936. Coll. by E. F. Guba; det. by W. W. Diehl.

258. *NYCTALIS ASTEROPHORA* Fr. This is a small sturdy mushroom which grows on top of the large funnel-shaped *Russula delica* Fr. so common and pushing up patches of the pine needle mat. State Pines south of Fair Grounds, July 25, 1940. Coll. by D. H. Linder; det. by E. V. Seeler, Jr.

259. *PANUS STIPTICUS* Fr. On bark of *Quercus* sp., Coskata Woods, August 7, 1940. Coll. and det. by E. V. Seeler, Jr.

260. *PEZICULA AUSTRALIS* Rehm. On bark of dead *Gleditsia triacanthos* L., "Harp-O-the-Winds", Wauwinet Rd., June 25, 1938. Coll. by E. V. Seeler, Jr.; det. by J. Walton Groves. (This determination is tentative until the fungus can be grown in culture as this is a new host.)

261. *PHAEOBULGARIA INQUINANS* (P. ex Fr.) Seaver. *Bulgaria polymorpha* (Oeder ex Fr.) Wettstein. In logs of *Quercus* sp. shipped from Mattapoissett, Mass., Steamboat Wharf and Island Service Co. yard, Aug. 16, 1937. Coll. and det. by E. V. Seeler, Jr.

262. *PHYLLACHORA GRAMINIS* (P. ex Fr.) Fckl. On stems and leaves of *Ammophila breviligulata* Fernald (see Nos. 160 and 161),

south end of Madaket Rd., May 30, 1936. Coll. and det. by *E. F. Guba*.

263. *PHYLLACHORA GRAMINIS* (P. ex Fr.) Fckl. On *Andropogon virginicus* L. in field at Polpis, Sept. 29, 1936. Coll. and det. by *E. F. Guba*.

264. *PHYLLACHORA GRAMINIS* (P. ex Fr.) Fckl. with *Puccinia peridermispora* (Ellis & Tr.) Arth. On *Spartina alterniflora* Loisel. var. *glabra* (Muhl.) Fern., Long Pond Shore near ocean, August, 1940. Coll. by *M. A. Rice*; det. by *E. F. Guba*.

265. *PHYLLACHORA TRIFOLII* (P. ex Fr.) Fckl. On living leaves of *Trifolium hybridum* L. Waste places, Siasconset, August 18, 1936. Coll. and det. by *E. F. Guba*.

266. *PHYLLOSTICTINA PALLIDIOR* (Pk.) Petrak & Syd. On leaves of *Smilacina stellata* (L.) Desf., Coaticue, Aug. 1940. Coll. by *M. A. Rice*; det. by *E. F. Guba*.

267. *PHRAGMIDIUM SPECIOSUM* (Fr.) Cke. On living leaves of *Rosa virginiana* Mill. Madaket. June 25, 1936. Coll. by *G. Wyatt*; det. by *E. F. Guba*.

268. *POLYPORUS HIRSUTUS* (Wulf.) Fr. On dead branches of *Myrica carolinensis* Mill. Hummock Rd., May 30, 1936. Coll. by *E. F. Guba*; det. by *W. W. Diehl*.

269. **PLUTEUS CERVINUS* (Schaeff.) Fr.

270. **PSATHYRA FIBRILLOSA* (Pers.) Fr.

271. **PSILOCYBE ELONGATA* (Pers.) Fr.

272. *PUCCINIA BOLLEYANA* Saccardo O., I. On *Sambucus canadensis* L. June 24, 1940. Coll. and det. by *M. A. Rice*.

273. *PUCCINIA CARICIS* (Schum.) Schroet. I. On leaves of *Ribes oxycanthoides* L. Tuckernuck Island, Aug. 14, 1940. Coll. and det. by *M. A. Rice*.

274. *PUCCINIA CONVULVULI* (Pers.) Cast. II, III. On *Convolvulus arvensis* L. Lily Pond Swamp, Aug. 1940. Coll. and det. by *M. A. Rice*.

275. *PUCCINIA CORONATA* Cda. II, III. On leaves and stems of *Avena sativa* L. See No. 173. Polpis Rd. and in field along Hummock Pond Rd. Aug. 1939. Coll. and det. by *M. A. Rice*.

276. *PUCCINIA CORONATA* Cda. II, III. On leaves of *Holcus lanatus* L. Sept. 1936. Coll. and det. by *E. F. Guba*.

277. *PUCCINIA OBTEGENS* Tul. O, II, III. On *Cirsium arvense* (L.) Scop. Lily St., June 19, 1940. Coll. and det. by *M. A. Rice*.

278. *PUCCINIA PERIDERMISPORA* (Ellis & Tr.) Arth. II, III, with *Phyllachora graminis* (P. ex Fr.) Fckl. On *Spartina alterniflora* Loisel. var. *glabra* (Muhl.) Fern. Edge of Long Pond, Madaket Rd., Aug. 1936. Coll. and det. by *E. F. Guba*. Long Pond, shore near ocean, Aug. 1940. Coll. by *M. A. Rice*; det. by *E. F. Guba*.

279. PUCCINIA PROSERPINACAE (B. & C.) Farl. II, III. On *Proserpinaca palustris* L. Tuckernuck. Aug. 14, 1940. Coll. and det. by M. A. Rice.

280. PUCCINIA VIOLAE (Schum.) D. C. II, III. On *Viola blanda* Willd. Long Pond Shore, 1940. Coll. and det. by M. A. Rice.

281. RAMULARIA LANCEOLATA Dearn. & House. On living leaves of *Plantago lanceolata* L. Along roadside, Siasconset, Aug. 17, 1936. Coll. and det. by E. F. Guba.

282. *RUSSULA AERUGINEA Lindblad.

283. *RUSSULA MAIREI Singer = *R. fragilis* (Pers.) Fr.

284. *RUSSULA PARAZUREA J. Schäffer.

285. RUSSULA DELICA Fr. A very common large funnel-shaped mushroom which pushes up under the mat of pine needles. State Pines south of Fair Grounds, July 29, 1938. Coll. by E. V. Seeler, Jr., det. by J. E. Lange.

286. RUSSULA FOETANS Pers. Hidden Forest, July 31, 1938. Coll. and det. by E. V. Seeler, Jr.

287. SCLERODERMA LYCOPERDOIDES Schw. On ground in garden, 20 Orange St., July 28, 1938. Coll. and det. by E. V. Seeler, Jr.

288. SELENOPHOMOPSIS JUNCEA (Mont.) Petrak. On stems of *Cytisus scoparius* Link. Madaket Rd., May 30, 1937. Coll. by E. F. Guba; det. by E. K. Cash. Not previously reported from the United States.

289. SEPEDONIUM CHRYSOSPERMUM (Bull.) Link ex Fr. Parasitic on *Strobilomyces strobilaceus* (Scop.) Berk. State Pines, south of Fair Grounds, Aug. 10, 1940. Coll. and det. by E. V. Seeler, Jr. This forms a powdery mass of golden yellow spores on decaying Boleti.

290. STEREUM OCHRACEO-FLAVUM Schw. On stems of *Myrica carolinensis* Mill. killed by fire, Madaket Rd., east of Long Pond, Aug. 30, 1937. Coll. and det. by E. V. Seeler, Jr.

291. SYNCHYTRIUM AUREUM Schröter. On *Hydrocotyle umbellata* L. 1940. Coll. by M. A. Rice; det. by D. H. Linder.

292. TRAMETES SUAVEOLENS (L.) Fr. On *Salix* sp. Hidden Forest, May 30, 1936. Coll. and det. by I. H. Crowell.

293. TRAMELLA LUTESCENS Pers. On dead branch of *Acer rubrum* L. Hidden Forest, July 27, 1940. Coll. by D. H. Linder; det. by E. V. Seeler, Jr.

294. TRICHOLOMA NUDUM (Bull. ex. Fr.) Fr. Hidden Forest, October 11, 1940. Coll. and det. by E. V. Seeler, Jr. A very beautiful all violet mushroom.

295. UROMYCES ACUMINATUS Arth. II, III, with *Claviceps purpurea* (Fr.) Tul. On leaves and stems of *Spartina alterniflora* Loisel. var. *pilosa* (Merr.) Fern. Oct. 1, 1936. Coll. and det. by E. F. Guba.

296. **UROMYCES ari-triphylli** (Schw.) Seeler, n. comb. *Aecidium caladii* Schw. Schr. Nat. Ges. Leipsig **1**: 69. 1822. *Puccinia ari-triphylli* Schw. Trans. Amer. Phil. Soc. II. **4**: 297. 1834. *Uromyces caladii* (Schw.) Farl. in Arthur p. 214. The specific epithet *caladii* is invalid because it was not based on the teleutospore stage. Internat. Rules Bot. Nomen. 3 ed. Art. 57. For further synonymy see works of Farlow, Arthur and Sydow. On *Arisaema triphyllum* (L.) Schott. Abnecount's Island, Nantucket, July 6, 1940. Coll. and det. by *M. A. Rice*.

297. **UROMYCES FABAE** (Pers.) de Bary. II, III. On *Vicia sativa* L. Siasconset roadside, July 26, 1940. Coll. and det. by *M. A. Rice*.

298. **UROMYCES HOUSTONIATUS** (Schw.) Sheldon. III. On *Sisyrinchium atlanticum* Bicknell. Quidnet, Aug. 7, 1939. Coll. and det. by *M. A. Rice*.

299. **UROMYCES HOUSTONIATUS** (Schw.) Sheldon. O, I. On *Houstonia caerulea* L. Coleman's Bird Sanctuary, June 27, 1940. Coll. and det. by *M. A. Rice*.

300. **UROMYCES HYPERICI** (Spreng.) Curt. O, I, II. On *Hypericum adpressum* Bart. Along border of pond. Aug. 1939. Coll. and det. by *M. A. Rice*. See No. 97.

301. **UROMYCES HYPERICI** (Spreng.) Curt. O, I, II. On *Hypericum virginicum* L. Coll. and det. by *E. F. Guba*. Also Tuckernuck Island, Aug. 14, 1940. Coll. and det. by *M. A. Rice*.

302. **VENTURIA INAEQUALIS** (Cke.) Aderh. On leaves and fruits of *Pyrus malus* L. Ash Street, Aug. 1940. Coll. and det. by *E. F. Guba*.

HOST INDEX, PART III

- | | |
|--|---|
| <i>Acer rubrum</i> L. 227, 240, 293 | <i>Juniperus virginiana</i> L. 251 |
| <i>Ammophila breviligulata</i> Fernald. 226, 262 | <i>Myrica carolinensis</i> Mill. 268, 290 |
| <i>Andropogon scoparius</i> Michx. 209, 229 | <i>Pinus rigida</i> Mill. 210, 225, 236 |
| <i>Andropogon virginicus</i> L. 263 | <i>Pinus</i> sp. 222, 235 |
| <i>Arisaema triphyllum</i> (L.) Schott. 296 | <i>Plantago lanceolata</i> L. 281 |
| <i>Avena sativa</i> L. 272. | <i>Polygonum persicaria</i> L. 238 |
| <i>Chamaedaphne calyculata</i> (L.) Moench. 219 | <i>Proserpinaca palustris</i> L. 279 |
| <i>Cirsium arvense</i> (L.) Scop. 277 | <i>Pyrus malus</i> L. 302 |
| <i>Convolvulus arvensis</i> L. 274 | <i>Quercus velutina</i> Lam. 230 |
| <i>Cornus florida</i> L. 243 | <i>Quercus</i> sp. 259, 261 |
| <i>Cytisus scoparius</i> Link. 288 | <i>Ribes oxycanthoides</i> L. 273 |
| <i>Gleditsia triacanthos</i> L. 260 | <i>Rosa virginiana</i> Mill. 267 |
| <i>Holcus lanatus</i> L. 276 | <i>Rubus</i> sp. 233, 246 |
| <i>Houstonia caerulea</i> L. 299 | <i>Russula delica</i> Fr. 258 |
| <i>Hydrocotyle umbellata</i> L. 291 | <i>Salix</i> sp. 292 |
| <i>Hypericum adpressum</i> Bart. 300 | <i>Sambucus canadensis</i> L. 272 |
| <i>Hypericum virginicum</i> L. 301 | <i>Sassafras variifolium</i> (Salisb.) Kuntze. 245, 257 |
| | <i>Sisyrinchium atlanticum</i> Bicknell. 298 |

HOST INDEX, PART III—*Continued*

Smilacina stellata (L.) Desf. 266	Trifolium hybridum L. 265
Sonchus arvensis L. 201	Typha latifolia L. 253
Spartina alterniflora Loisel., var. glabra (Muhl.) Fern. 264, 278	Ulmus americana L. 228, 244
Spartina alterniflora Loisel., var. pilosa (Merr.) Fern. 295	Vicia sativa L. 297
Spartina pectinata Link. 211	Viola blanda Willd. 280
Strobilomyces strobilaceus (Scop.) Berk. 289	Zizania aquatica L. 232

DEPARTMENT OF BOTANY, MASSACHUSETTS STATE COLLEGE
FARLOW HERBARIUM OF CRYPTOGRAMIC BOTANY,
HARVARD UNIVERSITY

CONTRIBUTION FROM THE LABORATORIES OF CRYPTOGRAMIC
BOTANY AND THE FARLOW HERBARIUM, HARVARD
UNIVERSITY.—NO. 196

NOTES ON NEW ENGLAND ALGAE

II. SOME INTERESTING NEW HAMPSHIRE ALGAE

ROY M. WHELDEN

That the many and varied bodies of fresh water of New Hampshire should yield rich collections of algae may be anticipated from the frequency with which early American algologists described such plants. Often however the abundance of species and forms encountered in a single pond far surpasses one's expectations, especially when the examination is exhaustively thorough. Among ponds yielding rich returns, Downing Pond in the town of New Durham offers much of particular interest to a student of the algae. Formed at least in part by the damming of a river, raising the water level several feet, this pond covers an area of perhaps 200 acres, over the greater part of which the depth of water is not more than 10 feet. The sandy bottom of the shallower portions, overlaid with a thin layer of fine ooze, is covered with an abundance of *Potamogeton*, *Vallisneria*, *Brasenia*, *Castalia* and other plants, among which occurs an abundance of *Utricularia*. In the deeper portions there are many specimens of *Nitella flexilis* growing on a coarse gravel bottom.

Throughout the summer months all this submerged vegetation, as well as such twigs and logs as occur, are commonly thickly covered with an ooze of algae. The water itself is rich in plankton